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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/692,350	10/19/2000	Renato John Recio	AUS920000621US1	6899
75	590 07/21/2004		EXAMINER	
DILLON & YUDELL LLP			SIDDIQI, MOHAMMAD A	
8911 NORTH (	CAPITAL OF TEXAS H	IGHWAY		
SUITE 2110			ART UNIT	PAPER NUMBER
AUSTIN, TX	78759		2154	~
			DATE MAILED: 07/21/2004	<u>.</u> /

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	Applicant(s)					
09/692,350	RECIO ET AL.					
Examiner	Art Unit	<del>-</del>				
Mohammad A Siddiqi	2154					
pears on the cover sheet wi	ith the correspondence addre	ess				
136(a). In no event, however, may a r ly within the statutory minimum of thin will apply and will expire SIX (6) MON a, cause the application to become AB	reply be timely filed  by (30) days will be considered timely.  ITHS from the mailing date of this commons.  BANDONED (35 U.S.C. § 133).	nunication.				
<u>3/04</u> .						
action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
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wn from consideration. or election requirement.						
er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
) 5) Notice of i	nformal Patent Application (PTO-1	52)				
	Examiner  Mohammad A Siddiqi  Dears on the cover sheet with the statutory minimum of third will apply and will expire SIX (6) MON a cause the application to become AB grade of this communication, even if the saction is non-final.  Ince except for formal matters action is non-final.  The parte Quayle, 1935 C.D.  In with the statutory minimum of third will apply and will expire SIX (6) MON a cause the application to become AB grade of this communication, even if the saction is non-final.  The parte Quayle, 1935 C.D.  The parte Quayle is the drawing a caminer. Note the attached are priority under 35 U.S.C. (a) the shave been received in A priority documents have been for the certified copies not the certified copies not so	RECIO ET AL.    Examiner				

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#### DETAILED ACTION

1. Claims 1-20 are presented for examination.

## Specification

2. The substitute specification filed 05/03/04 has not been entered because it does not conform to 37 CFR 1.125(b) and (c) because: After March 1, 2001, all amendments to the specification, including the claims, must be made by replacement paragraph/section/claim in clean form (without underlining and bracketing) in order to eliminate (1) the need for the Office to enter changes to the text of application portions by handwriting in red ink, and (2) the presence of hard to scan brackets and underlining to improve the patent publishing process. This practice requires the applicant to provide a clean copy of an amended paragraph/section/claim together with a marked up version using applicant's choice of a marking system showing the changes being made which will aid the examiner. The marked up version must be based on the immediate previous version and indicate (by markings) how the previous version has been modified to produce the clean replacement paragraph(s), section(s), specification or claim(s) submitted in the current amendment. "Previous version" is defined as the

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version of record in the application as originally filed or from a previously entered amendment.

3. The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1,9, and 17 are rejected under 35 U.S.C. 103(a) as being 5. unpatentable over Toh et al. (5,987,011) (hereinafter Toh) in view of Kakemizu et al. (5,805,072) (hereinafter Kakemizu).

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6. As per claims 1, 9, and 17, Toh discloses a method for efficiently merging subnets comprising the steps (fig 4, col 7, lines 17-18) of:

linking a first subnet having a first subnet (col 7, lines 16-19) manager (col 18, lines 39-47) and a first database (col 3, lines 57-60), with a second subnet (col 7, lines 16-19) having a second subnet manager (col 18, lines 39-47) and a second database (col 3, lines 57-60) to create a merged subnet (col 7, lines 16-19); and

dynamically selecting (col 8, lines 1-6) one of said first subnet manager (fig 4, col 18, lines 39-47) and said second subnet manager (fig 4, col 18, lines 39-47) as a master subnet manager (col 7, lines col 7, lines 16-36, bigger subnet must be master subnet), which controls the entire merged subnet (col 7, lines 16-36) wherein control of the entire merged subnet includes control of both said first subnet and said second subnet (col 7, lines 17-36).

Toh is silent about the database utilized to control the entire first subnet, configuring subnet, However, Kakemizu discloses the database utilized to control the entire first subnet (fig 2B, 2C, col 4, lines 52-67) configuring subnet (routing table, col 4, lines 52-67).

Therefore, it would have been obvious to one of ordinary skill in the art

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at the time invention was made to combine Kakemizu with Toh because it would support optimal routing by having a layer subnet mangers in a hierarchical network system.

- 7. Claims 7, 15, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toh et al. (5,987,011) (hereinafter Toh) in view of Kakemizu et al. (5,805,072) (hereinafter Kakemizu) in further view of Mahalingaiah et al. (6,754,214) (hereinafter Mahalingaiah).
- 8. As per claims 7 and 15, Toh discloses first and second subnets each comprises multiple nodes wired (fig 1, col 1, line27) together to create a wired (fig 1, col 1, line27) subnet that is controlled by a single subnet manager (col 7,lines 17-36), and said selecting step provides a single master subnet manager (col 7,lines 17-36).

Toh and Kakemizu does not specifically discloses further comprises deactivating the management function of the subnet manager not selected as the single master subnet manager.

However, further comprises de-activating the management function of the subnet manager not selected as the single master subnet manager (col 12, lines 37-43).

Therefore, it would have been obvious to one of ordinary skill in the art

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at the time invention was made to combine Toh and Kakemizu with

Mahalingaiah because it would support dynamic reconfiguration of network

mangers.

9. As per claim 18, Toh discloses first subnet manager is said master subnet manager (col 7, lines 17-36, ID's and keys are the characteristics of the node); and

first subnet manager absorbs configuration entries from said second database into said first database to create a merged database (col 7, lines 17-36, ID's and keys are the characteristics of the node, bigger must be master), and

Toh does not specifically discloses control/management functions of said second subnet manager.

Kakemizu discloses control/management functions of said second subnet manager (fig 2A-2C, col 4, lines 27-45).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to combine Kakemizu with Toh because it would support optimal routing by having a layer subnet mangers in a hierarchical network system.

Toh and Kakemizu does not specifically discloses not selected as the subnet are deactivated.

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However, Mahalingaiah discloses subnet not selected as the master subnet manager are deactivated (col 12, lines 37-43).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to combine Toh and Kakemizu with Mahalingaiah because it would support dynamic reconfiguration of network mangers.

- 10. As per claim 19, Toh discloses first subnet manager controls and manages said system utilizing said merged database (routing table, col 17, line 36, col 7, lines 17-36).
- 11. Claims 2-6, 8,10-14, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toh et al. (5,987,011) (hereinafter Toh) in view of Kakemizu et al. (5,805,072) (hereinafter Kakemizu) in further view of Jensen et al. (6,185,612) (hereinafter Jensen).
- 12. AS per claims 2 and 10, Toh discloses partitioning subnet, updating the routing tables which is configurable (col 7, lines 16-36 and col 3, lines 66-67). Toh is silent about the configuration entries including a partition key (P-Key) and a global unique identifier (GUID), which are time-stamped with

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a time said configuration entries are modified by respective ones of said first and second subnet managers.

However, Jensen database comprise configuration entries each including time-stamped a partition key (P-Key) and a global unique identifier (GUID) (col 10, line 15), which are time-stamp indicates a time (measuring response time, col 9, lines 19-26) that said configuration entries are created and modified by respective ones of said first and second subnet managers (col 10, lines 9-18 and col 9, lines 4-16).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to combine Toh with Jensen because it would support collaborative network computing by merging two or more subnets and also better secured route selection strategy.

13. As per claims 3 and 11, Toh discloses said first subnet manager is selected as said master subnet manager, said method further comprising the step of:

absorbing said subnet configuration entries from said database of the second subnet- manager to said database of said master subnet manager to create a merged database (col 7, lines 16-36) of subnet configuration eateries (routing tables, col 7, lines 25-30).

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14. As per claims 4, 12, and 20, Toh discloses merging two subnets, portioning subnets and updating the routing tables (col 7, lines 17-36). Toh is silent about the step by process of authentication: determining that a first GUID entry of said second database is the same as a second GUID entry of said first database; and in response to said determining step, selecting a most recent time-stamped GUID entry from among said first GUID entry and said second GUID entry as a representative GUID entry for said merged database.

However, Jensen discloses determining that a first GUID entry of said second database is the same as a second GUID entry of said first database; and in response to said determining step, selecting a latest time-stamped (measuring response time, fig 4-7, col 9, lines 19-26) GUID entry from among said first GUID (col 10, line 15) entry and said second GUID entry as a representative GUID entry for said merged database (col 10, lines 9-32).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to combine Toh with Jensen because it would support collaborative network computing by merging two or more subnets and also better and secure route selection strategy.

15. As per claims 5 and 13, Toh discloses the step of discarding a GUID entry not selected as said representative GUID entry (col 16, lines 53-58).

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16. As per claims 6 and 14, Toh discloses determining that a first P-Key entry of a GUID of said second database of said other subnet manager is the same as a second P\_key entry of a different GUID (route identifier source, col 8, line31) of said first database (col 8, lines 1-50); in response to said determining step, changing all occurrences of said P\_Key in said second database to a new P-Key value (fig 9A and 9B, col 7, lines 17-36).

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17. As per claim 8, Toh discloses of configuring (col 6, lines 48-60) said merged subnet utilizing said master subnet manager (col 7, lines 17-36).

## Response to Arguments

18. Applicant's Remarks, filed 05/03/04, are most in view of the new grounds of rejection necessitated by Applicants amendment.

#### Conclusion

19. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad A Siddiqi whose telephone number is (703) 305-0353. The examiner can normally be reached on Monday - Friday.

expire later than SIX MONTHS from the mailing date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

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